"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020012-0

- 1. BAYDA, M. F.
- 2. USSR (600)
- 4. Tree Planting
- 7. Mikhayl Sunko's team kept its word. Les i step! 4 No. 12, 1952

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Uncl.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020012-0"

SOV/125-12-2-8/14

18(5)

AUTHOR:

Asnis, A.Ye., and Bayda, P.F.

TITLE:

Use of Gas-Cutting Machines with Copying Mechanisms for Welding Complex Joints (Ispol'zovaniye gazorezatel'nykh

mashin s kopirnymi mekhanizmami dlya svarki shvov

slozhnogo kontura)

PERIODICAL:

Avtomaticheskaya svarka, 1959, Vol 12, Nr 2, pp 66-70

(USSR)

ABSTRACT:

Until the production of photoelectronic copying welding machines is organized, it is expedient to use the existing designs for gas-cutting machines produced by VNII Avtogen. In production conditions the static hinged machine tool type ASSh-£ for contour cutting from a pattern has proved itself. The Paton Institute has developed the technology of flux-welding complex contour parts on the ASSh-2 machine. A diagram of the main part of the installation is shown. Cuidance of the machine is performed by a shield mounted on an external hinged

Card 1/3

frame, which carried the rheostat, ammeter and voltmeter.

SOV/125-12-2-8/14 Use of Gas-Cutting Machines with Copying Mechanisms for Welding Complex Joints

Using hinged cutting machine tools ASSh-& or ASSh-1 it is possible to weld angled and junction seams on parts 1500 x 750 mm or 1000 x 1000 mm. Speed of welding from 6-40 m/hr. The Institute has also developed techniques for welding complex contour parts by using a vertical electrode. Experiments have shown that the pumice-like flux AN - 60 (42.5 - 46.5% SiO₂, 37.0 - 41.0% MnO, 5.0 - 7.0% CaO, 5.5 - 7.5% CaF₂, up to 3.0% R₂O₃, up to 1% MgO, up to 1.5% FeO, up to 0.15% S, up to 0.15% P) has some advantages over AN - 348A because it ensures a smoother outline of the seams. The conclusions of the article are that gas-cutting machines for complex contour seams are advisable. Secondly that when using the ASSh-E installation, smoother outlines of the seam can be obtained by using flux AN - 60 which is smelted in electrical furnaces. Welding is carried out using a vertical electrode. Thirdly the new technique has been proven both in laboratory and production conditions. The use of gas-cutting machines for complex contour welds is con-

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SOV/125-12-2-8/14

Use of Gas-Cutting Machines with Copying Mechanisms for Welding Complex Joints

> siderably simpler and more economical than with other copying mechanism installations now in use. There are 5 diagrams.

ASSOCIATION: Ordena trudovogo krasnogo znameni institut elektrosvarki imeni Ye.O.Patona AN USSR (Order of the Red Banner of Labor Institute of Electric Welding imeni Ye.O.Paton of the AS UkrSSR)

December 17, 1958 SUBMITTED:

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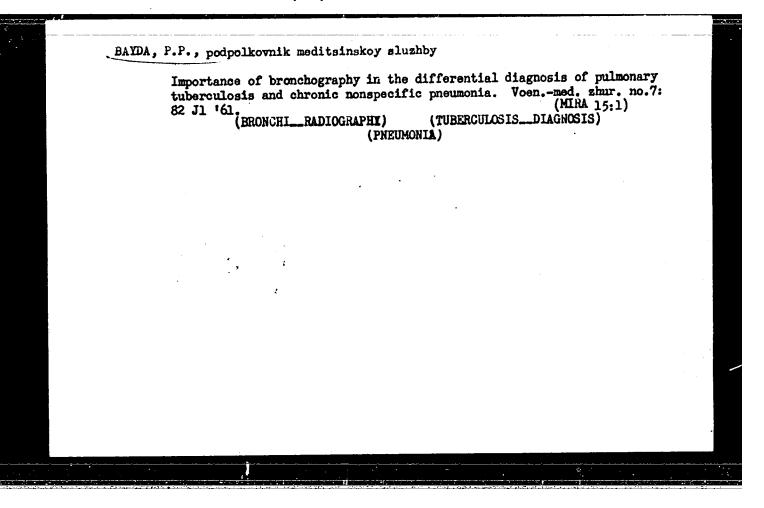
BAYDA, P. P.

The methodology of Bronchography. Voyenno-Meditsinskiy Amurnal, No. 1, p 72, 1955.

BAYDA, P. P. (Lieutenant Colonel of the Medical Service)

"The Significance of Bronchography in the Differential Diagnosis of Pulmonary Tuberculosis and Chronic Nonspecific Pneumonia."

Voyenna-Meditsinskiv Zhurnal, No. 12, December 1961, pp



EAYDA, P.P., kand. med. nauk

Allergic infiltrates in the lungs. Uch. zap. Stavr. gos. med. inst. 12:394-395 163.

State of bronchi in acute pheumonia in a brochographic image. Ibid.:396-397

Characteristics of brinchial lesions in chronic nonspecific pneumonia and pulmonary tuberculosis in an X-ray image.

[bid.:398-399] (MIRA 17:9)

1. Kurs rentgenologii (zav. kand. med. nauk P.P. Bayda) Stavropol®skogo gosudarstvennogo meditsinskogo instituta.

BAYDA, P.P., kand. med. nauk; KARASHUROV, Ye.S., kand. med. nauk

X-ray study of the respiratory function of the lungs,
diaphragm, and intercostal muscles in bronchial asthma.

Uch. zap. Stavr. gos. med. inst. 12:251-253 '65.

(MIRA 17:9)

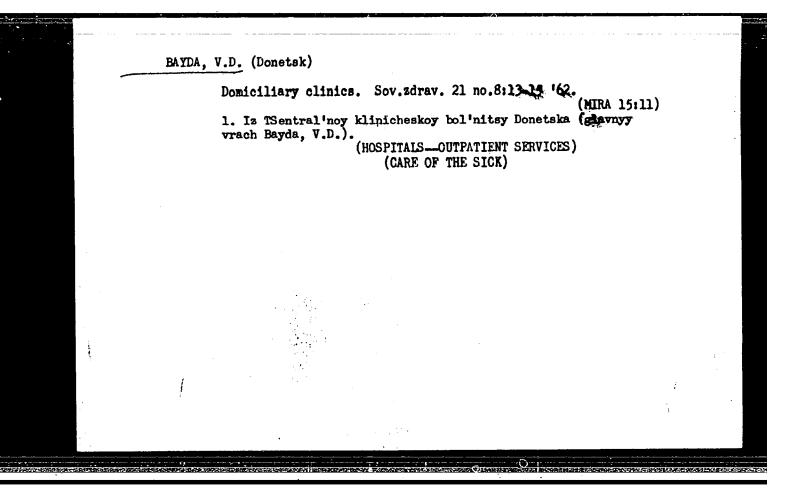
1. Kafedra obshchey khirurgii (zav. prof. Yu.S. Gilevich)
kurs rentgenologii i radiologii (zav. kand. med. nauk
P.P. Bayda) Stavropol'skogo gosudarstvennogo meditsinskogo
instituta.

RUSHCHINSKIY, V.M., kand.tekhn.nauk; DUEL', M.A., kand.tekhn.nauk;
DEMENT'YEV, V.A., inzh.; NECHAYEV, B.Ya., inzh.; SHTEFAN, V.Ye., inzh.

Experimental system for the control of the 67-2SP boiler and K-50-90 turbine block by means of a control computer.
Teploenergetika 9 no.10:32-35 0 '62. (MIRA 15:9)

1. TSentral'nyy nauchno-issledovatel'skiy institut kompleksnoy avtomatizatsii i Khar'kovskoye upravleniye energokhozyaystva.

(Automatic control) (Electric power stations)



LYUBOM UTROV, V. Ye., kand.med.nauk; BAYDA, W.D.; YESHCHENKO, H.S.; MALIS, M.A.

Course and outcome of periarteritis nodosa. Sov.Med. 27 no.7: 62-68 J1:63. (MIRA 16:9)

l. Iz klinicheskogo otdela Donetskogo nauchno-issledovatel!skogo instituta fiziologii truda (dir. - kand.med. nauk B.N.
Onopko) i TSentral!noy klinicheskoy bol!nitsy Donetska (glavnyy vrach V.D.Bayda), nauchnyy konsul!tant raboty - prof. I.V.
Vorob!yev.

(PERIARTERITIS NODOSA)

BAYDACHENKO, F., redaktor; PIPKO, V., tekhnicheskiy redaktor. [Mechanization of mines as an effort for contimuous operation]
Mekhanizatory shakht v bor'be sa tsiklichnost'. [n.p.] Stalinskoe

(HIRA 8:2)

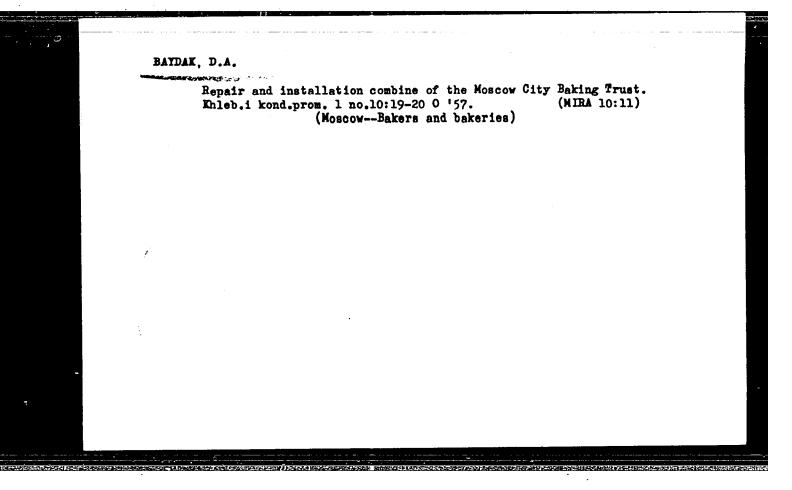
oblastnoe isd-vo, 1952. 145 p. (Coal mines and mining)

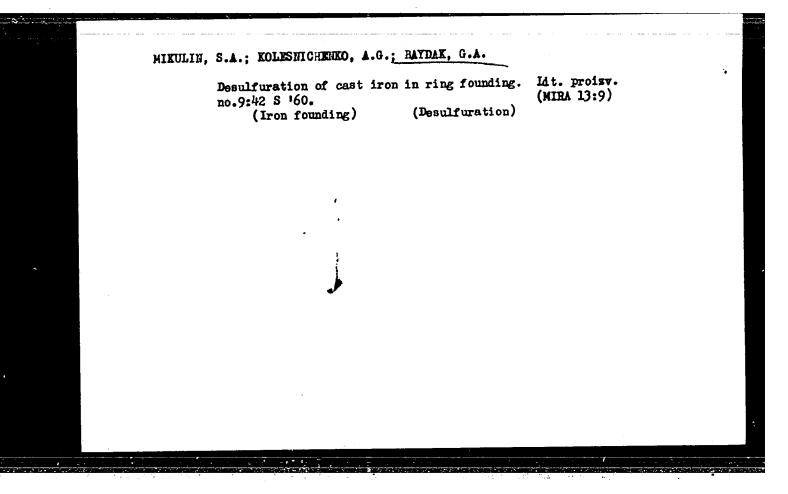
ALEKSANDROV, S.N.; GALKOVSKAYA. K.F.; BAYDACHENKO-ROSTOVTSEVA, T.I.

Treatment of experimental radiation sickness with bone marrow and antibiatics. Vop. onk. 11 no.10:77-81 165.

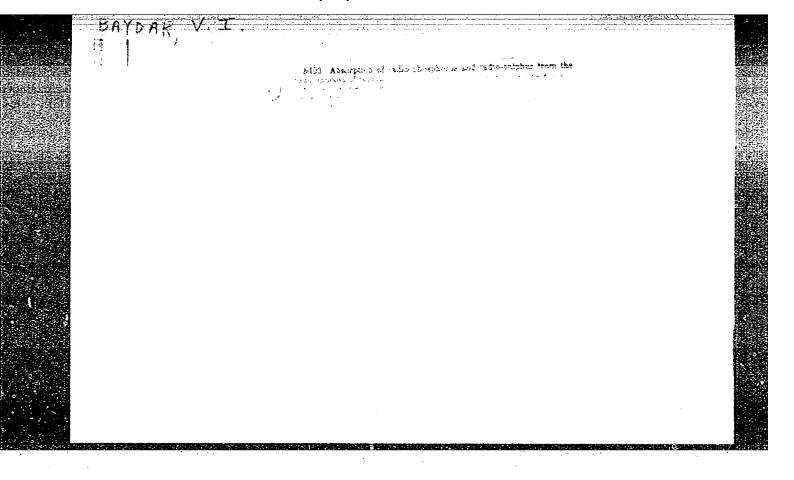
(MIRA 18:10)

l. Iz TSentral'nogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta Ministerstva zdravockhraneniya SSSR (direktor -Ye.I.Vorob'yav).





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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020012-0

USSR/Human and Animal Physiology - Blood.

T-4

Abs Jour : Ref Zhur - Biol., No 7, 1958, 31588

Author

DAYEAK

: Baydak, V.I.

Inst Title

: Permeability of Erythrocytes in Relation to Phosphates

Normally and With Burns.

Orig Pub : V sb.: Vses. konferentsii po med. radiol. Eksperim. med.

radiol. M., Medgiz, 1957, 287-288.

Abstract : No abstract.

Card 1/1

PETROV, D.G.; SAVCHIK, A.B.; DZIS*, I.P.; BAYDAK, V.I.

Morphological and biochemical changes in homologous skin following thermal treatment with formalin. Gemat, i perel. krovi 1:156-160 (MIRA 18:10)

1. L'vovskiy institut perelivaniya krovi.

BULAKH, G.D.; BAYDAK, Ye.N.

Approximate calculations for a beam on an elastic foundation of varying rigidity. Gidrotekhnika no.2:11-16 '62. (MIRA 1625) (Beams and girders)

5.4700

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sov/79-30-2-1/78

AUTHORS:

Shchukarev, S. A., Borisova, Z. U., Baydakov, L. A.

TITLE:

Cor arning Heat of Solution of Magnesium Perchlorate Hexa-

hyu ate

PERIODICAL:

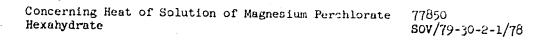
Zhurnal obshchey khimii, 1960, Vol 30, Nr 2, pp 353-355(USSR)

ABSTRACT:

Heats of solution of $Mg(ClO_{\frac{1}{4}})_2$ · $6H_2O$ for various dilutions at 25° were measured in a microcalorimeter [described in Mishchenko, K. P., Pronina, M. Z., et al., Zhur. priklad. khim. 27, 1003 (1954)]. Magnesium perchlorate, obtained by dissolving MgO in perchloric acid, was recrystallized 3-5 times and dried for $2^{\frac{1}{4}}$ hr over concentrated sulfuric acid (the time of drying was determined by finding the maximum ΔH in the plot of ΔH vs time). Tables 1 and 2 list the experimental results (each is an average of ΔH found in 8-9 experiments. Figure 2 gives the graphical representation along with the ΔH for zinc perchlorate hexahydrate [Shchukařev, S. A., Andreyev, S. N., et al., Zhur. obshchey khim., 29, 2468 (1959)]. It can be seen that the limiting value for integral heat of dilution of the magnesium perchlorate hexahydrate equals 1.00 kcal/mole (reached at dilution 1:500). There are 2 figures;

Card 1/3

2 tables; and 6 refere U.S. references are: S Rees, Hardy, J. Am. Ch	Smeets, Ch. A., 27,	Nr 1, 5629 (1936); Smit,	
Leningrad State Univer	sity (Leningradskiy	gosudarstvennyy	
February 10, 1959			
Table 1	Table 2		
$\Delta^{\rm H_{av}}$ (kcal/mole)	Dilutions	$\Delta_{ ext{Hav}}$ (kcal/mole)	
1.00 ± 0.03 1.00 ± 0.03 1.00 ± 0.03 1.17 ± 0.03 1.73 ± 0.03 1.75 ± 0.03 1.86 ± 0.03 1.94 ± 0.03	1:25 1:15 1:11 1:9 1:8 1:7	$\begin{array}{c} 2.05 \pm 0.02 \\ 2.47 \pm 0.02 \\ 2.91 \pm 0.02 \\ 3.24 \pm 0.02 \\ 3.42 \pm 0.02 \\ 3.56 \pm 0.02 \\ 3.71 \pm 0.02 \\ \end{array}$	
	U.S. references are: S Rees, Hardy, J. Am. Ch Leningrad State Univer universitet) February 10, 1959 Table 1 AHav (kcal/mole) 1.00 ± 0.03 1.00 ± 0.03 1.00 ± 0.03 1.71 ± 0.03 1.75 ± 0.03 1.86 ± 0.03 1.94 ± 0.03	U.S. references are: Smeets, Ch. A., 27, Rees, Hardy, J. Am. Chem. Soc., 54, 3513 Leningrad State University (Leningradskiy universitet) February 10, 1959 Table 1 Table AHav (kcal/mole) 1.00 ± 0.03 1.00 ± 0.03 1.17 ± 0.03 1.73 ± 0.03 1.75 ± 0.03 1.75 ± 0.03 1.86 ± 0.03 1:65	



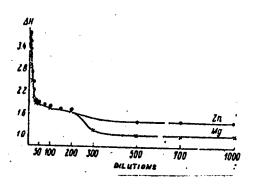


Fig. 2. Heats of dilution of hexahydrates of magnesium and zinc perchlorates at various dilutions.

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D227/D301

AUTHORS:

Baydakov, L.A., Borisova, Z.U., and Myuller, R.L.

TITLE:

Electrical conductivity of the selenium-arsenic

system in a vitreous state

PERIODICAL:

Zhurnal prikladnoy khimii, v. 34, no. 11, 1961,

2446 - 2454

TEXT: In the present work the authors studied the possibility of stabilizing the conductivity of selenium by interlocking it with chains of atoms of polyvalent metals. Among the latter class of elements arsenic and germanium proved to be of most interest. There are two ways in which arsenic affects selenium. During glass formation it may close the chains to give polycycles of the type As_4SE_{6n} and therefore, block the current conductors or it may form an open mesh $AsSe_{3n}$, ensuring "through" conductivity. Glass melts of selenium-arsenic of the type $SeAs_x$ where $0 \le x \le 1.25$ were obtained by the method of N.A. Goryunova and B.T. Kolomiyets (Ref. 11: Izv. AN SSSR ser.fiz. 20, 1496, 1956) according to which the two elecard 1/5

Χ

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Electrical conductivity of the ...

ments are fused in vacuum and kept at 680 - 700°C for 2 hours while subjected to vibration followed by slow cooling. Another series of samples was prepared without vibration but with additional heating to 280° over a period of 2 hours. Glasses of AsSev where 1.25 & y <20 were obtained, for which the temperature relation of the conductivity was reproducible and the values of energy E and factor σ_0 in the expression $\sigma = \sigma_0$ exp (- ϵ /2kT), were sufficiently near. The melts were characterized by their density "d" and microhardness H based on 1 mole per 1 cc. of structural elements. From the experimantal results it was found that AsSelas had a maximum erorphardness which indicated the presence of a microhardness which indicated the presence of a meshlike polymeric compound. The uniformity of H, on the other hand, indicated the absence of compound As Se 50 Transition of $AsSe_{1.5}$ to As_2Se_2 was accompanied by the decrease of H and appearance of weak As-As bonds in As_2Se_2 structures. The conductivity of the investigated systems was measured by ontutometric method, if however, the resistances of specimens exceeded 1011 ohms Card 2/5

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Electrical conductivity of the ...

ohms. A method of charging and discharging of a small condenser was used, in which the charge was allowed to leak through the insulation of the electrometric part of the system. The resistance was then calculated from the equation

$$R_{x} = \frac{V_{p}R_{z}}{V} (1 - e^{-\frac{t}{CR_{z}}})$$

where V_D - potential across the specimen, V - potential across the condenser C at the time t, R_Z - resistance of the insulation. Each specimen was subject to measurements involving comparison with a standard resistance and charge-discharge method. The absence of hysteresis was determined by taking measurements during temperature increase and decrease. From the measurements of temperature, electrical conductivity and evaluations of E and σ_O the following in-

ferences were made: The electrical conductivity of selenium containing traces of admixtures is not stable due to the case, with which the structural transformation reaction

Card 3/5

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Electrical conductivity of the ...

$$n(Se_8) \rightleftharpoons \frac{8n}{n_i} (Se_{n_i}) \rightleftharpoons \cdots \rightleftharpoons \frac{8n}{n_k} (Se_{n_k}) \rightleftharpoons \frac{8n}{n_k} [Se_{n_k}]$$

occurs, resulting from the shift of the complex multistage equilibrium and transformation of Se₈ and cyclic polymers characteristic of liquid Se, into disorderly and then orderly chain arrangements, the latter being characteristic of crystalline hexagonal selenium. The total number of covalent bonds is however retained and the shift of equilibrium proceeds with very small energy effects. The fact that conductivity varies within 10^{-15} to 10^{-5} is due in the first place to the rearrangement of rings, blocking the current carriers, into open chains ensuring transmission of voids and electrons, and is illustrated by the rapid decrease of electrical conductivity on fusion of the hexagonal selenium and analogous decrease on transition from hexagonal selenium ($-\text{Se}_{n-1}$, $\sigma' = 10^{-5} - 10^{-7} \Omega^{-1} \text{cm}^{-1}$) to monoclinic selenium (Se_{8} , $\sigma' = 10^{-1} \Omega^{-1} \text{cm}^{-1}$). The complex transitional structural and valency states of hard selenium at the various stages of heating occurs as a result of covalent bond interchange during the overlapping of electron spheres in the process Card 4/5

30196 \$/080/61/034/011/007/020 D227/D301

Electrical conductivity of the ...

of rotation-vibration movement. As shown by the conductivity values the introduction of arsenic fixes the mesh-structure of high stability, exhibiting high hardness, high softening point and more stable conductivity. Optimum strength and conductivity is shown by a AsSe_{1.5} compound having a maximum density of triple covalent bond packing. The increase of As content reduces the microhardness and as a result of weakening of the AsSe_{1.5} structure conductivity begins to vary. There are 4 figures, 1 table and 40 references: 23 Soviet-bloc and 17 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: C.H.L. Goodman, Phys. Chem. Solids. 6, 4, 305, 1958; S.S. Flaschen, A.D. Pearson and W.R. Nakthovers, J. Am. Cer. Soc. 42, 450, 1959; A.F. Joffe and A.R. Regel, Progress in Semiconductors, 4, 239, 1960; E. Mooser and W.B. Pearson, J. Electronics, 1, 629, 1956.

SUBMITTED: March 14, 1961

Card 5/5

37912

s/054/62/000/002/008/012 B101/B104

15.2640

AUTHORS: Myuller, R. L., Baydakov, L. A., Borisova, Z. U.

TITLE: Electric conductivity of the system As - Se - Ge in the

vitreous state

PERIODICAL: Leningrad. Universitet. Vestnik. Seriya fiziki i khimii, no. 2, 1962, 94 - 102

TEXT: Glasses having the composition $AsSe_XGe_Y$ were investigated to establish the effects of the trigonal structure of $AsSe_X$ and of the tetrahedral structure of $=Se_ZGeSe_Z$ on their microhardness and electric conductivity. To avoid formation of selenium rings or chains x - 2y was chosen <1.5. After chemical analysis the concentrations of the structural units $[GeSe_4/2]$; $[:AsSe_3/2]$; $[-AsSe_2/2]$; $[AsAs_3/3]$; and $[GeGe_4/4]$ in the glasses were calculated. Four types of glass were found: (I) with x - 2y = 1.5, i.e., containing enough Se for the unpaired electrons therein to form complete valence electron octets with the unpaired electrons of Ge and As. In this case $[GeSe_4/2]x = y[As]$, $[AsSe_3/2] = [As]$. Card 1/3

Electric conductivity of the ...

S/054/62/000/002/008/012 B101/B104

Type (II) with 1.0 $\leq x - 2y < 1.5$, in which the structural units [:AsSe_{3/2}] and [.AsSe_{2/2}] are due to the low Se content. Type (III) with $0 \leq x - 2y < 1.0$ contains As which is not bound with Se, [AsAs_{3/3}]. In type (IV) with x - 2y < 0, there is not enough Se to bind all of the Ge, so the structural units [GeGe_{4/4}] are formed. Microhardness H as calculated from the microhardnesses h_i of the structural units was in good agreement ($\pm 4\%$) with the rule of additivity $H = \sum h_i [x_i]$, where $[x_i]$ is the concentration of the structural units (SU). Assuming that $h(:AsSe_{3/2}) \cong 6.0 \cdot 10^3$ (kg/mm²)(cm³/mole SU), the authors calculated $h(GeSe_{4/2}) \cong 12 \cdot 10^3$ for type (I), $h(\cdot AsSe_{3/2} \cong 5 \cdot 10^3$ for type (II) and $h(AsAs_{3/3}) \cong 9 \cdot 10^3$, $h(GeGe_{4/4}) \cong 14 \cdot 10^3$ (kg/mm²)(cm²/mole SU) for types (III) and (IV). The electric conductivity, the modulus of electric conductivity, and the energy ϵ_0 , as determined by the authors are consistent with the valency theory of continuous electron transfer in GeSe_{4/2} and Card 2/3

Electric conductivity of the...

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Asse_{3/2}. The other SU were blocked. Carrier mobility is limited by disturbances in the periodicity of the covalent bonds and depends on which bonds predominate. This paper was read at the XX nauchnaya konferentsiya LISI (20th Scientific Conference of the LISI), February, 1962. There are 1 figure and 2 tables. The most important English-language reference is: L. Pauling, the nature of the chemical bond. 3 ed., N. Y., 1960.

SUBMITTED: January 12, 1962

Card 3/3

EAYDAKOV, L.A.; BORISOVA, Z.U.; IPAT'YEVA, V.V.

Conductivity of vitreous AsSea - xSx. West.LGU 17 no.22:90-95
'62. (MIRA 15:12)

(Arsenic) (Vitreous materials—Electric properties)

S/058/63/000/003/059/104 A062/A101

AUTHORS:

Baydakov, L. A., Borisova, Z. U., Myuller, R. L.

TITLE:

Investigation of the electric conductivity of glass-like semiconductors AsSe_xOe_y

PERIODICAL: Referativnyy zhurnal, Fizika, no. 3, 1963, 14, abstract 3E94
(In collection: "Fizika", Leningrad, 1962, 24 - 26)

TEMY: The electric conductivity of the As-Se-Ge system was investigated under conditions of absence of excessive Se. There was established the additive dependence of the microhardness on the concentration of the structural assemblies. The experimental data show that the conductivity of glasses is caused mainly by the ionization of valent bonds in the structural assemblies of GeSe₄/2 and AsSe₃/2 and by the motion of the carriers along the valent bonds. At the transition from glass with 90% of AsSe₃/2 to glass with 70% of GeSe₄/2 there was observed a change in the doubled energy of mobility activation 1.8 - 2.2 eV in accordance with the previously determined values of the ionization energy of the valent bonds. The structural assemblies containing no Se had little effect

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			현 및 현실 시작 기계	E. Nagayev			
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	Gon no.	Gonductivity of the vitreous system As-Se-Ge. Vest.LCU 17 no.22:105-113 162. (MIRA 15:12) (Arsenic) (Vitreous materials—Electric properties)					
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MYULLER, R.L.; BAYDAKOV, L.A.; BORISOVA, 2.U.

Experimental data on the conductivity of the arsenic - sulfur vitreous state system. West. IGU 17 no. 22:77-89 '62.

(Arsenic) (Sulfur) (Vitreous materials—Electric properties)

L 12672-63 EMP(q)/EMT(m)/BDS AFFTC JD ACCESSION NR: AP3000640 E/0080/63/036/003/0500/0506

AUTHOR: Baydakov, L. A.; Borisova, Z. U.; Pronkin, A. A.

TIME: Solution kinetics of vitreous arsenic sulfides in alkali solution

SOURCE: Zhurnal prikladnoy khimii, v. 36, no. 3, 1963, 500-506

TOPIC TAGS: solution kinetics, arsenic sulfides, activation energies, solution rate

ABSTRACT: The rates of solution of vitreous As8 sub 1.5, As8 sub 1.54, As8 sub 1.58, As8 sub 1.62, As8 sub 1.69 and As8 sub 2.5 in aqueous alkali solutions of different concentrations at temperatures from 15 - 45° were investigated. Tabulated data show an increase in solubility rate with an increase in temperature; with agitation; and with an increase in the NaOH concentration, where the rate of As8 sub 2.5, faster than for As8 sub 1.5, was explained by the dipole structure of the former and the chain-like structure for As8 sub 1.5. In the stoichiometric As8 sub 1.5 and As8 sub 2.5 (the other sulfides studied being As sub 2.8 sub 3 with additions of \$3), the most stable and difficult to dissolve, the solubility proceeds with the formation of complex anions, hydration and finally solution. Without agitation, where activation energies are less than 10 kcal/mol, diffusion determines the rate of solution; with agitation, the effect of diffusion process is over-

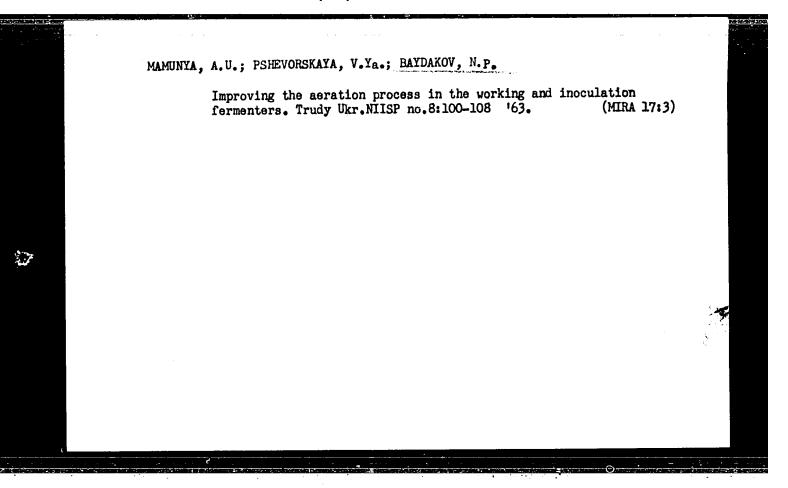
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KOZLOV, K.D.; prinimali unhastiye: ZAGORUYKO, K.Ye; ROZOVA, Z.I.; BULATETS-KAYA, T.P.; TREYSTIK, F.Z.; SHCHUKINA, T.M.; ZAYTSEVA, N.Ye.; KRYLO-VA, L.S.; AMEL'YAN, G.Ye.; BAYDAKOV, N.N., RYZHKOV, A.N., red.; ME-MESHKINA, L.I., tehhn. red.

[Economy of Sakhalin Province; statistical collection] Narodnoe khoziaistvo Sakhalinskoi oblasti; statisticheskii sbornik. IUzhno-Sakhalinsko knizhnoe izd-vo, 1960. 103 p. (MIRA 14:6)

1. Sakhalin (Province) Statisticheskoye upravleniye. 2. Kollektiv rabotnikov Statisticheskogo upravleniya Sakhalinskoy oblasti (for all except Ryzhkov, Memeshkina). 3. Nachal'nik Statisticheskogo upravleniya Sakhalinskoy oblasti (for Kozlov) (Sakhalin-Statistics)



BAYDAKOV, P. A.: Master Med Sci (diss) -- 'The effect of anaphylaxis on the higher nervous activity of animals (rabbits)". Voronezh, 1958. 16 pp (Voronezh State Med Inst), 200 copies (KL, No 9, 1959, 117)

MAMUNYA, A.U.; BAYDAKOV, N.P.; PSHEVORSKAYA, V.Ya.

Use of the automatic refractometer for the testing and regulation of the concentration of molasses solutions. Report No.2. Trudy UkrNIISP no.9:21-25 164. (MIRA 17:10)

BAYDAKOV, A.P. [deceased] Revision of the design of route indicators. Avton., telen.i svias 3 no.9:35-36 S '59. (WIRA 13:2) (Railroads--Signaling)

ACC NR: AH6013720 . Honograph

UR/

Baydakov, Vadim Borisovich; Ivanov-Emin, Lev Nikolayevich

Aircraft aeromechanics (Aeromekhanika letatel'nykh apparatov) Moscow, Izd-vo "Mashinostroyeniye," 1965. 409 p. illus., biblio. Errata slip inserted. 7500 copies printed. A textbook for aviation technical schools.

TOPIC TAGS: aerodynamics, aeronautic engineering, aerodynamic design, rocket flight, missile technology

PURPOSE AND COVERAGE: This book outlines fundamentals of aeromechanics, the structure and physical properties of the atmosphere, aerodynamic characteristics of wings, and modern methods of aerodynamic investigations. Special chapters deal with the stability and controllability of flying vehicles (airplanes and rockets), and with methods of their aerodynamic and ballistic design. The book is intended as a textbook for students in technical aviation schools. It may be useful to medium-level technical personnel of aviation industry.

TABLE OF CONTENTS [abridged]:

Foreword -- 3

Introduction -- 5

Card 1/3

UDC: 629.13: 533.6 (075.3)

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ACC NR:
        AM6013720
Part 1. Fundamentals of aerodynamics
Ch. I. Air and its properties -- 13
Ch. II. Basic laws of the motion of liquids and gases -- 24
Ch. III. Elements of gas dynamics -- 44
Ch. IV. Hethods of experimental investigations -- 75
Part 2. Aerodynamic characteristics of airplanes and rockets
Ch. V. Aerodynamic characteristics of isolated lifting surfaces -- 103 Ch. VI. Aerodynamic characteristics of rotating bodies -- 147
Ch. VII. Aerodynamic characteristics of flying vehicles -- 166
Part 3. Power plants
Ch. VIII. Characteristics of propeller engines -- 218
Ch. IX. Jet engines -- 227
Part 4. Motion of a flying vehicle
Ch. X. General equation of the motion of flying vehicle -- 246
Ch. XI. Stability of flying vehicles -- 261
Card 2/3
```

Part 5. Aeromechanics of aircraft

Ch. XII. Aerodynamic design of aircraft -- 280
Ch. XIII. Methods of aerodynamic design of aircraft -- 307
Ch. XIV. Stability and controllability of aircraft -- 329

Part 6. Flight of the rocket

Ch. XV. Motion of a rocket on trajectory -- 357
Ch. XVI. Aerodynamic and ballistic design of rockets -- 390
Appendix. The international standard atmosphere -- 402
Bibliography -- 406

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L 11083-65 SWT(1)/EWT(m)/EEC(t)/EWP(t)/EWP(b) IJP(c)/APWL/AS(mp)-2/ESD(t)

ACCESSION NR: AP4046633 S/0181/64/006/010/3137/3140

AUTHORS: Baranskiy, P. I.; Baydakov, V. V.; Kurilo, P. M.

TITLE: Anisotropy of the Hall coefficient of n-type germanium in the mixed scattering region

SOURCE: Fizika tverdogo tela, v. 6, no. 10, 1964, 3137-3140

TOPIC TAGS: Hall coefficient, anisotropy, carrier scattering, lattice scattering, impurity scattering, germanium semiconductor

ABSTRACT: The anisotropy of the Hall coefficient in the region of mixed scattering (lattice and impurity) was investigated in n-type germanium prepared from a homogeneous ingot with resistivity approximately 0.5 ohm-cm. The angular dependence of the quantity $\Delta R/R(0)$ (R -- Hall coefficient) was measured as a function of the magnetic field direction in a plane perpendicular to the current direction in three series of samples. In the samples of each of these series

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L 11083-65 ACCESSION NR: AP4046633

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the current was made to flow along the directions [111], [190], and [110]. The test procedure was described in an earlier paper by two of the authors (Baranskiy and Kurilo, FTT v. 6, 54, 1964). The tests were made in intermediate magnetic fields (µH/c ≈ 1). The impurity scattering was produced by antimony with a concentration 3.2 \times 10^{15} cm⁻³. The results show that even a small contribution of impurity scattering reduces noticeably the value of AR/R(0) compared with the case of pure lattice scattering. Furthermore, in the case when the current was parallel to the [110] direction the impurity scattering (at small angles between the current and the field) leads even to a reversal of the sign of $\Delta R/R(0)$. This indicates that the concentration interval of samples intended for use in applications where R is supposed to be independent of the field, can be expanded appreciably by suitable choice of the angle between the field and the current. "The authors are deeply grateful to Professor A. G. Samoylovich and Doctor of Physical Mathematical Sciences Ye. G. Miselyuk for a fruitful discussion of the results of the work, and

Card 2/3

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020012-0

also for useful advice." Orig. art. has: 2 figures. ASSOCIATION: Institut poluprovodnikov AN UkrSSR, Kiev (Institute of Semiconductors AN UkrSSR) SUBMITTED: 18May64 ENCL: 00 SUB CODE: SS, EM NR REF SOV: 008 OTHER: 0	
ASSOCIATION: Institut poluprovodnikov AN UkrSSR, Kiev (Institute of Semiconductors AN UkrSSR) SUBMITTED: 18May54 ENCL: 00	
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Card 3/3	

BARANSKIY, P.I., BAYDAKOV, V.V., KURILO, F.M.

Anisotropy of the Hall coefficient of n-germanium in the mixed scattering region. Fiz. tver. tela 6 no.10:3137-3140 0 '64. (MIRA 17:12)

1. Institut poluprovodnikov AN UkrSSR, Kijev.

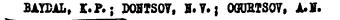
"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020012-0

-	BAYDAKOVA, Z. L.	DECEASED	1963/4	
	MEDICAL SCIENCES	(1962)		

OGURTSOV, A.N., inzh.; DONTSOV, N.V., master; BAYDAL, K.P., master

Photoelectric control of coal feeding. Stroi.mat. 6 no.4:25-26 Ap '60. (MIRA 13:6)

1. Cheremushkinskiy keramicheskiy savod.
(Photoelectric cells) (Automatic control)
(Coremics)



Automatic unit for signaling the presence of metal in the molding batch. Stroi. mat. 6 no.10:28 0 '60. (MIRA 13:10) (Electronic instruments)

DONTSOV, N.V.; OGURTSOV, A.N.; inzh.; BAYDAL, K.P., master otzhoga

Automatic control of lighting systems. Gor. khoz. Mosk. 34 no.11:30-31 N '60. (NIRA 13:11)

1. Cheremushkinskiy keramicheskiy savod. 2. Master elektrotsekha Cheremushkinskogo keramicheskogo savoda (for Dontsov). 3. Byuro sodeystviya ratsionalisatsii i izobretatel'stvu (for Ogurtsov). (Moscow-Factories-Lighting) (Automatic control)

BAYDAL, K.P.; ANTONOVA, N.N., inzh., red.

[Automation and mechanization in the production of ceramics; collection of specifications of the proposals of efficiency promoters. From the experiences of the Cheremushki, Taganrog and Rostov Plants] Avtomatizatsiia i mekhanizatsiia v proizvodstve keramicheskikh izdelii; sbornik opisanii ratsionalizatorskikh predlozhenii. Iz opyta Cheremushkinskogo, Taganrogskogo i Rostovskikh zavodov. Moskva, Gosstroiizdat, 1962.

(MIRA 17:3)

1. Starshiy inzhener tekhnicheskogo otdela Gosudarstvennogo respublikanskogo instituta po proyektirovaniyu promyshlennosti stroitel nykh materialov RSFSR (for Baydal).

BAYDAL, H. Kh.

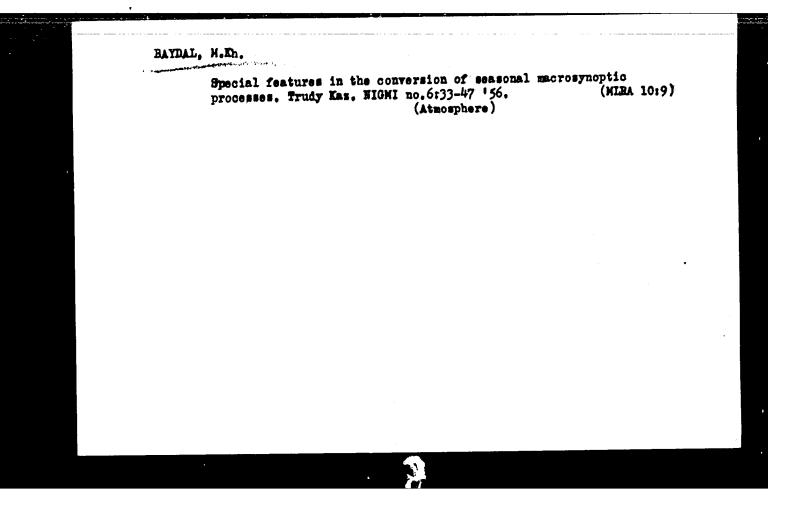
"Problem of Zonal Circulation of the Atmosphere"
Trudy Kazakhsk. n.-i. gidromet. in-ta, No 3, 1954, 31-36

The return of atmospheric circulation from meridional type to zonal type (the formation of latitudinal planetary frontal zone) occurs on the average during the year every 22 days (15-37 days). In certain regions a regular return to similar positions characteristic for zonal circulation with a rhythm of 20-24 days is detected. The study of the laws governing the transition of zonal circulation into meridional and vice versa is one of the most illuminating ways to solve the problem of the long-range forecasting of weather. (RZhGeol, No 9, 1955)

SO: Sum-No 845 , 7 Mar 56

BAYDAL, H.Kh .. SERKERYAKOVA, A.A.

Climatic characteristics of cold waves during wintertime in Kasakhstan.
Trudy Kashighi no.5:37-43 155. (MLRA 9:10)
(Kasakhstan--Climate)



"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020012-0

		A santaulw
 Recurrence of natural specirculation. Trudy Kaz.	moptic periods with a wes NIGMI no.6:48-55 156. (Atmosphere)	(MIRA 10:9)

SOV/50-59-10-11/25

10(4) AUTHORS:

Baydal, M. Kh., Zhilyayev, F. G.

TITLE:

Experience Collected in the Hydrometeorological Service of Fishing in Fall in the Northeast Caspian Sea

PERIODICAL:

Meteorologiya i gidrologiya, 1959, Nr 10, pp 32 - 33 (USSR)

ABSTRACT:

In the Northeast Caspian Sea, the greater part of fish is caught in fall and especially in the period before the lake freezes up. In this connection, the hydrometeorological service has to master responsible tasks, that is to say, the fishing organizations must be given reliable advice and special weather forecasts. Fishing is mostly done in the shallow coastal zone, which is silted up by off-shore storms. Further, the actions of the trawlers are complicated, and the tackles are torn off and carried away. Dangerous temperature drops are accompanied by water temperature of almost zero. In 1956 and 1957 experts of the Kazakhskiy nauchno-issledovatel'skiy gidrometeorologiches—kiy institut (Kazakh Scientific Hydrometeorological Research Institute) and Alma-Atinskoye byuro pogody (Alma-Ata Weather Bureau) assisted the Gur'yevskoye gidrometeobyuro (Gur'yev Hydrometeorological Bureau) by establishing a joint service for the

Card 1/2

Experience Collected in the Hydrometeorological Service SOV/50-59-10-11/25 of Fishing in Fall in the Northeast Caspian Sea

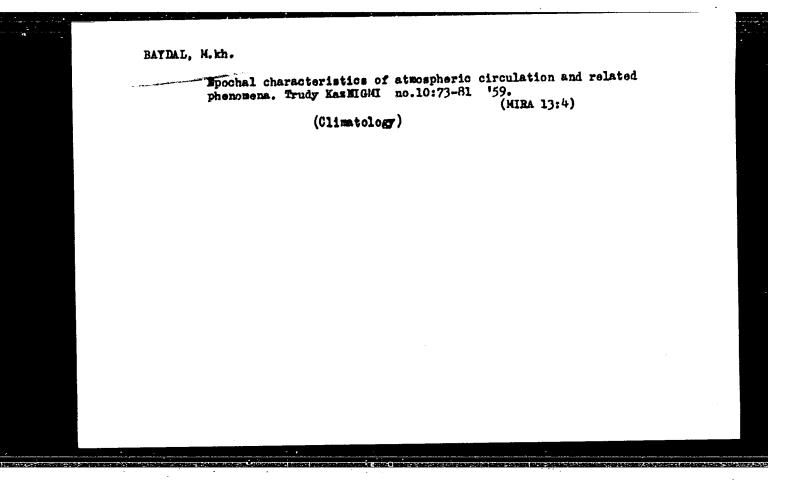
fishing in the Northeast Caspian Sea before the lake froze up. The authors of this article report on the cooperation of these organizations, and give a brief description of this service in 1957. The esistance of the hydrometeorological service in sealing in the Northeast Caspian Sea is illustrated by another example. The article is concluded with an enumeration of the shortcomings of the special hydrometeorological service of fishing in those areas.

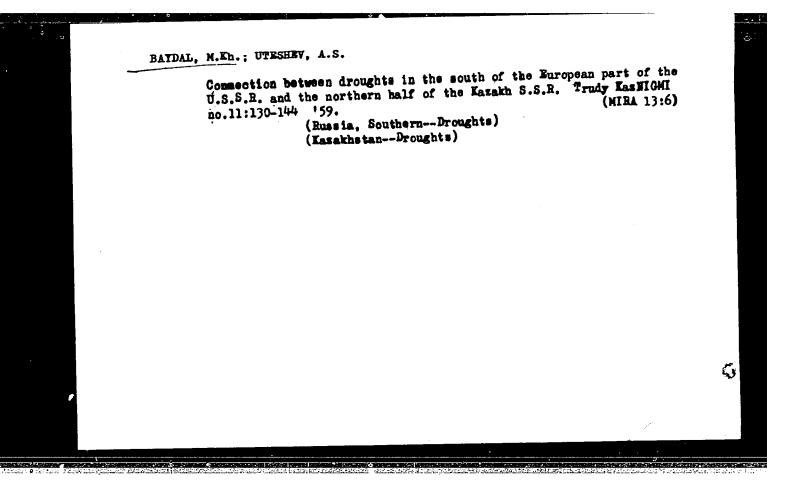
Card 2/2

BAYDAL, M.Kh. Principles of a complex large-scale circulation method in long-range weather forecasting. Trudy KasWIGHI no.10:37-72 159. (MIRA 13:4)

(Weather forecasting)

CIA-RDP86-00513R000204020012-0" APPROVED FOR RELEASE: 06/06/2000





UTIMAGANEETOV, M.M., kand.geogr.nauk; HERLYAND, T.G., kand.geogr.nauk;

BEZYKEKHHIY, Sh.A., kand.fiz.-matem.nauk; BAYDAL, M.Kh., kand.

geogr.nauk; KUZMETSOV, A.T., kand.geogr.nauk; CHUMOW, L.A.,

loktor geogr.nauk; SHVYREVA, Yu.G., mladshiy nauchnyy storudnik;

UTESHEV, A.S., kand.geogr.nauk; GOL!TSEERG, I.A., doktor geogr.

nauk; KLYKOVA, Z.D., starshiy nauchnyy sotrudnik; MEN!SHIKOVA,

Ye.A., mladshiy nauchnyy sotrudnik; GEL!MGOL!TS, N.F., starshiy

nauchnyy sotrudnik; PROKHOROV, I.I., starshiy nauchnyy sotrudnik;

TKACHENKO, N.S., mladshiy nauchnyy sotrudnik; ZHDANOVA, L.P.,

red.: ERAYNINA, M.I., tekhn.red.

[Climate of Kasakhatan] Klimat Kazakhatana. Pod red. A.S.Uteaheva. Leningrad, Gidrometeor.izd-vo, 1959. 366 p. (MIRA 13:5)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologicheskoy sluzhby. 2. Kazakhskiy pedagogicheskiy institut
(KazPI) (for Utimagambetov). 3. Glavnaya geofizicheskaya observatoriya im. A.I.Voyeykova (GGO) (for Berlyand, Gol'tsberg). 4. Kazakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut KazNIGMI) (for Besverkhniy, Baydal, Kuzuetsov, Uteshev, Klykova, Men'shikova, Gel'mgol'ts, Prokhorov, Tkachenkoj. 5. Institut geografii Akademii nauk SSSR (IG AM SSSR) for Shvyreva).
(Kasakhstan-Climate)

29876 S/169/61/000/009/029/056 D228/D304

3,5140 (1041)

AUTHORS:

Semenov, M. F., and Baydal, M. Kh.

TITLE:

Isolations of high cold cyclones connected with turns

of high-altitude ridges and troughs

PERIODICAL:

Referativnyy zhurnal. Geofizika, no. 9, 1961, 35, abstract 9B263 (Tr. Kazakhak. nauchno-issled. gidro-

meteorol. in-ta, no. 15, 1960, 60-66)

TEXT: In the formation and movement of cyclones and anticyclones an important role is played by planetary high-altitude frontal sones (HAFZ), whose characteristics remain unchanged during a natural synoptic period. Intraperiod changes are caused by the definite evolution of the HAFZ. One of the peculiarities of the transformation of HAFZ inside a period is the clockwise turn of high-altitude ridges and near-surface anticyclones, with which is connected the isolation of high cold cyclones. The study of this question is of important significance for forecasting atmospheric processes both on the ground and at altitudes. It is calcu-

Card 1/2

29876 S/169/61/000/009/029/058 D228/D304

Isolations of high cold...

lated that more than one-third of the overall number, one-half of the meridional, and more than three-quarters of the natural synoptic periods. in which the ridges and troughs turn, are accompanied by the isolation of high cold cyclones. It is recommended that the beginning and end of the turn of the axis of a high-altitude ridge are considered as the boundaries of a natural synoptic period, whose general features may tend to represent the further evolution of the HAFZ and the dynamics of nearsurface baric formations. Research has shown that high cold cycloniceddies are formed in the southeastern part of the trough of the HAFZ situated to the east of the turning ridge. Maps are given which indicate the areas of the pre-eminent formation of high isolated cyclones when the original position of the HAFZ is somewhat varied. On examining 165 instances of a natural synoptic period, in which cyclones were clearly isolated, it appeared that in 89% of the cases meridional circulation gives place to zonal circulation; the use of this as a prognostic criterion is proposed. In conclusion, recommendations are given for forecasting the isolation of high cold cyclones and the end of a natural synoptic period. [Abstracter's note: Complete translation. 7

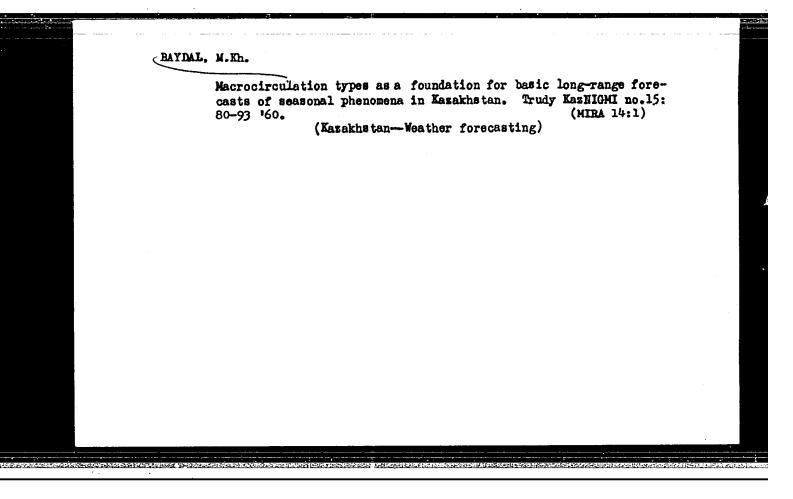
Card 2/2

BAYDAL, M.Kh.; GREENYUK, Ye.V.

Movement of baric centers near the ground in the east-west circulation pattern. Trudy KazNIGMI no.15:67-72 '60. (MIRA 14:1) (Cyclones)

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020012-0

Prognostic properties of charts representing integral deviation of atmospheric pressure from the normal. Trudy KazNIGMI no.15: 23-70 160. (NIRA 14:1)		
73-79 160. (Cyclones)	(Weather forecasting)	RA 14:1)
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ACCESSION NR: AT4015883

s/2650/63/000/020/0048/0063

AUTHOR: Baydal, M. Kh.

TITLE: Peculiarities of transformation of macrocirculation processes and long-range weather forecasts for Kazakhstan

SOURCE: Alma-Ata. Kazakhskiy n.-1. gidrometeorol. institut. Trudy*, no. 20, 1963. Voprosy* sinoptiki i meteorologii (Problems of synoptics and meteorology), 48-63

TOPIC TAGS: meteorology, weather forecasting, long-range weather forecasting, atmospheric circulation, air temperature, solar activity, sunspot, atmospheric front

ABSTRACT: The author defines and gives the results of investigation of four categories of regular processes of atmospheric circulation. The first category is characterized by more or less regular change of opposite states. These are manifested in the following macro-processes: a) circulation between hemispheres, b) polar-equatorial circulation, c) monsoon circulation. The second category includes: a) change of the geographic position of the pole of circulation, b) alternation of the westerly, easterly and meridional circulation forms. The third Cord 1/3

ACCESSION NR: AT4015883

category includes regularities associated with the high-level frontal zones: a) processes caused by the wave properties of the planetar, high-level frontal zone, b) formation of moving cyclones and anticyclones resulting from advective-dynamic processes in frontal zones, c) cyclo- and anticyclogenesis, caused by macro-orographic processes. The problems discussed under these first three categories are refinements of the work of the author published elsewhere, or elaboration, with some special cases cited, of work done by other authors. The fourth category includes: seasonal rhythms of synoptic processes, b) calendar peculiarities in the annual variation of circulation forms. The combination and interaction of all processes in all four categories determine the long-term values of meteorological elements. Special development of any of these processes causes a significant weather anomaly. Study of the processes has often been done without taking into account the type of associated process, seasons of the year and total intensity of planetary circulation; the dependence of a rhythmic cycle on these three factors now has been demonstrated, making it possible to apply these cycles in longrange weather forecasting. Calendar peculiarities exist in both the annual variation of types of synoptic processes and in the annual variation of a number of meteorological elements. There is a close relationship between these calendar peculiarities and the peculiarities in turn are related to circulation epochs. In studying the development of general circulation and in improving long-range Cord 2/3

ACCESSION NR: AT4015883

forecasting methods it also is necessary to take into account a number of asynchronous relationships between hydrometeorological elements and the relationship of these elements to solar activity indices. It has been demonstrated, for example, that the sign of anomalies of mean monthly air temperature in Kazakhstan are closely related to sunspot number. Precipitation also is dependent on the epochal extremes of solar activity. The secular variation of solar activity also exerts an important influence on the precipitation regime. It has been noted that there is a variation of hydrometeorological elements with a period of two years, another phenomenon useful in long-range forecasting. Orig. art. has: 8 figures and 3 tables.

ASSOCIATION: Kazakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (Kazakh Hydrometeorological Scientific Research Institute)

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Card 3/3

ACCESSION NIC: AT4015884

\$/2650/63/000/020/0064/0075

AUTHOR: Baydal, M. Kh.

TITLE: Weather and climatic characteristics of the principal circulation forms.

SOURCE: Alma-Ata. Kazakhskiy n.-i. gidrometeorol. institut. Trudy*, no. 20, 1963. Voprosy* sinoptiki i meteorologii (Problems of synoptics and meteorology), 64-75

TOPIC TAGS: meteorology, hydrology, climate, climatology, weather forecasting, atmospheric circulation, long-range weather forecasting

ABSTRACT: Weather, climatic and hydrological characteristics are shown to be related to the three macrotypes of circulation (easterly, westerly, meridional) in Kazakhstan. Investigations revealing the structure of mean long-term values (norms) of meteorological elements for circulation epochs are described. The three Vangengeym circulation forms used are valuable for long-range forecasting, but their determination was subjective prior to the author's development of objective classification criteria, given here. Several other/factors must be taken into account when applying the system. Particular attention is given to the position in the high latitudes of the pole of circulation, that is, the center of the circle described by the planetary high-level frontal zone in the northern hemi-

ACCESSION NR: AT4015884

sphere. The orientation of the principal branches of the planetary high-level frontal zone changes appreciably in dependence on the position of the pole of circulation, thereby affecting the directions of movement of pressure systems. The planetary high-level frontal zone in the northern hemisphere has a symetric position relative to the pole of circulation and is displaced from the geographic pole in the same direction as the pole of circulation itself. The mean distance between the planetary front and the pole is approximately 4,000 km. The most significant changes of meteorological elements in regions of the northern hemisphere are observed when there is movement of the pole of circulation from one quasi-stationary position to another. Atmospheric circulation in the hemisphere can be considered to have the following kinematic states or planetary types of macrocirculation: 1) central, 2) peripheral, 3) dicentral, the first two with several varieties. The study of the position and behavior of the planetary high-level frontal zone is essential in broadening the base for long-range weather forecasting. The given system of classification, related to the pole of circulation and the planetary high-level frontal zone can assist in explaining climatic variations and variations in the regime of rivers and lakes. Knowing the type of predominant atmospheric processes will make it possible to determine the quantitative distribution of precipitation in mountain regions, for example, where there are no observation stations. The presence of a close relationship Card 2/3

ACCESSION NR: AT4015884

between weather and climatic characteristics and the three types of atmospheric circulation makes it possible to find a relationship between circulation conditions and hydrological phenomena; for example, a relationship has been found between circulation types and high-water characteristics on Russian rivers. Ice phenomena on the Gaspian Sea and Lake Balkash have been related closely to circulation types. Orig. art. has: 6 figures and 2 tables.

ASSOCIATION: Kazakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (Kazakh Hydrometeorological Scientific Research Institute)

SUBMITTED: 00

DATE ACQ: 30Jan64

ENCL: 00

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NO REF SOV: 013

OTHER: 000

Card 3/3

BAYDAL, M.Kn., FADEYEVA, 1.5.

Finding index numbers for standard processes of the atmospheric circulation. Trudy KazNIGMI no.20:90-95 '63. (MIRA 17:5)

BAYDAL, M. Kh.

Part III of Kazakh Institute Work on Weather and Climate Forecasting

This monograph, Fundamentals of the Complex Macrocirculation Method of Long-Range Weather and Seasonal Phenomena Forecasting, by M. Kh. Baydal, is the 3rd part of the work, Long-Range Forecasts of the Weather and Climate Fluctuations in Kazakhstan, published by the Kazakh Scientific Research Hydrometeorological Institute of the Main Administration of the Hydrometeorological Service, Council on Ministers USSR. It consists of 305 pages of descriptive text, a 406-item bibliography, 24 tables on occurrences of fundamental variations of transformation of the three forms of circulation, monthly analogs (graphs) of transformation of forms of atmospheric circulation, and 30 diagrams of the geographic distribution of anomalies of the average monthly temperature of the air and of precipitation. (Abstract: Dolgosrochnyye Prognozy Pogody i Kolebaniy Klimata Kazakhstana. Chast' III. Osnovy Kompleksnogo Makrotsirkulyatsionnogo Metoda Dolgosrochnykh Prognozov Pogody i Sezonnykh Yavleniy, by M. Kh. Baydal, Leningrad, 1965)

BAYDAL, ". ".

houre and prognosite evaluation of a two-year recurrence of hydrometeorological phenomena. Trudy KanNIGMI no .23 3-9-165.

Characteristics of the interaction of processes of the atmospheric circulation over the northern hemisphere. Ibid.:9-13

Terminal precipitation forecast on the basis of constantpressure charts. 1bid.:21-26 (MIRA 18:9)

L 2805-66 .EWI(1)/FCC ACCESSION NR: AT5021641 UR/2650/65/ 023/0009/0013 AUTHOR: Baydal, M. Kh. TITLE: Peculiarities of interaction processes of atmospheric circulation over the northern hemisphere SOURCE: Alma-Ata. Kazakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut. Trudy, no. 23, 1965. Voprosy sinopticheskikh i ledovykh prognosov (Problems in synoptic and ice forecasts), 9-13 TOPIC TAGS: atmosphere, temperature, weather forecasting ABSTRACT: The author examines the characteristics reflecting interactions of atmospheric circulation of the Atlantic-Eurasian and the Pacific-North American sectors of the northern hemisphere. The circulation index was determined by average monthly charts of AT500, referring the processes over the two sectors to a particular type of circulation, whether E-W or N-S. For the analysis, months were chosen for initial data during which circulation in the Pacific-North

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American sector was chiefly E-W and that in the Eurasian sector was chiefly N-S. The combinations of circulation types for the standard and succeeding months were

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ACCESSION NR: AT5021641

then examined. The sign and value of air temperature were determined for different latitudes. Analysis of the results indicates that E-W circulation is dominant in the northern hemisphere. It may be said that the initial E-W circulation spreads from the American sector to the European sector. In 70% of the succeeding months the same type of circulation is preserved in the American sector. In the months succeeding the standard month, with the circulation combinations indicated, positive anomalies of air temperature were observed above European SSSR, western Siberia, and Kazakhstan. The probability of this anomaly proved to be 68-81%. The average temperature was 1.3C higher than normal. For the winter half of the year, the probability of a positive air-temperature anomaly increases to 90% under the same circulation conditions, and it reaches 100% over Kazakhstan. It is shown that forecasting of circulation conditions and of weather for any part of Eurasia requires consideration of the dominant type of circulation for the preceding month not only over Eurasia itself but also over the Pacific Ocean and North America. Orig. art. has: 3 tables.

ASSOCIATION: Kazakhakiy nauchno-issledovatel skiy gidrometeorologicheskiy institut (Kazakh Scientific Research Hydrometeorological Institute)

NO REF SOV: 000

OTHER: OOO

BAYDAL, Mikhail Kharlampiyevich: VAYTSMAN, A.I., red.

[Long-range forecasting of the weather and climatic fluctuations in Kazakhstan] Dolgosrochnye prognozy pogody i kolebanii klimata Kazakhstana. Leningrad, Gidrometeoizdat. Pt.3. 1965. 361 p. (MIRA 18:12)

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BOOK EXPLOITATION

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Baydal, Mikhail Kharlamniyevich

44,5

Long-range weather forecasting and climate fluctuations in Kazakhstan macrocirculation analysis and long-range forecasting of weather, seasonal phenomena, and climate fluctuations in Kazakhstan (Dolgosrochnyye prognozy pogody i kolebaniy klimata Kazakhstana; makrotsirkulyatsionnyy analiz i dolgosrochnoye prognozirovaniye pogody, sezonnykh yavleniy i kolebaniy klimata Kazakhstana) pt. 1 6 2. Leningrad, Gidrometeoizdat, 1964. 445 p. illus., biblio. (At head of title: Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR. Kazakhskiy nauchnoissledovatel'skiy gidrometeorologicheskiy institut)

TOPIC TAGS: long range weather forecasting/Kazakhstan, climatic fluctuation/Kazakhstan, macrocirculation/Kazakhstan, atmospheric circulation/Kazakhstan

PURPOSE AND COVERAGE: This book is intended for scientists and technicians working in meteorology, climatology, hydrology, and

Cord 1/6



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Card 2/6

agrometeorology. The author presents a summary of his research, performed at the Kazakh Scientific Research Hydrometeorological Institute during the last 10 years, on atmospheric circulation, 44,55 long-term characteristics of basic forms and types of atmospheric circulation over Eurasia and the Northern Hemisphere, and their role in the formation of local synoptic processes over Kazakhstan and Central Asia. A detailed account is given of the characteristics of atmospheric circulation which cause anomalies in weather, in seasonal hydrometeorological and agrometeorological phenomena, and in long-range fluctuations in climate and in glaciated areas. A number of prognostic relationships, making it possible to compile basic forecasts of seasonal phenomena several months to a year in advance, are also discussed. A supplement is included which contains quantitative data (tables, charts) on atmospheric circulation in the Northern Hemisphere, by region, which can be used to make comprehensive studies of atmospheric circulation with the use of electronic computers. The present book contains only the first two parts of the work. Part III was to have been published in 1965. There are 136 figures, 66 tables, and 385 references of which 311 are Soviet.

•	L 3877-66
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	TABLE OF CONTENTS [abridged]:
	Author's note 3
	Foreword 6
	Introduction 9
	PART I. PRINCIPAL FORMS OF ATMOSPHERIC CIRCULATION AND THEIR METEOROLOGICAL REGIME IN KAZAKHSTAN
	Ch. I. Principal types and categories of atmospheric circulation 25
 •	Ch. II. Planetary systems of atmospheric circulation in the Northern Hemisphere 140
	Ch. III. Long-range regime and fluctuations in the recurrence of three types of circulation 165
	Ch. IV. Relationship between local peculiarities of synoptic pro- cesses and basic types of circulation 187
	Card 3/6
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Ch.	VII.	Macroc phenom	irculationena 20	onal con	ditions	of sea	sonal h	ydrolo	gical	•	
Ch.	VIII	and w	circulat eather c hstan	ondition	ctors ai s with r	fecting	g the y to gra	ield o	f gras	8e 5	
Ch.	IX.	Macroci fin clim	rculatio	nal fact 90	ors in t	the gen	esis an	d fluc	tuatio	0.8	

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II.	Catalog of inst accompanied by of an adjacent	the formation	of an is	n of hig olated (gh-altii cyclone	south	rests east	
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III.	Catalog of ins integration of cyclones 42	surface anti	ospheric cyclones	processe and eme	es with rgence (the di of sou	is- thern	
III.	integration of	surface anti 4 tribution of	cyclones the mean	and emer	rgence (of sou	thern ure	on

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SOURCE CUDE: UR/2650/66/000/025/0003/0011

AUTHOR: Baydal, M. Kh.

ORG: none

TITLE: Epochal relations of the circulation pole with elements of the magnetic field and the instantaneous rotational pole of the earth

SOURCE: Alma-Ata. Kazakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut. Trudy, no. 25, 1966. Voprosy meteorologii (Problems in meteorology), 3-11

TOPIC TAGS: weather forecasting, geomagnetic field, atmospheric pressure, atmospheric front

ABSTRACT: It has been noted that the center of the high frontal zone in the northern hemisphere does not always coincide with the center of the Arctic and that the front does not parallel the lines of latitude. Cyclonic or anticyclonic pressure structures develop in the center of the polar vortex, and the position of these structures is called the circulation pole by the author. It is generally toward the edge of the central Arctic region. Data have been compiled on secular variation in magnetic declination, movement of foci of pressure anomalies, and movement of the instantaneous rotational pole of the earth. These are shown on maps and are compared graphically. From a comparison of the various phenomena, it is concluded that the position of the

Card 1/2

circulation pole about the marginal part of the Arctic corresponds to the magnetic pole of the earth and to the intensity of solar radiation. Epochs of dominant position of the circulation pole at any particular marginal part of the Arctic show a coincidence with the maximum of magnetic declination. The frequent recurrence of a central Arctic position is due to decrease in anomalies of the instantaneous rotational pole of the earth. The author believes the relations here uncovered are of direct importance in long-range weather forecasting. Orig. art. has: 4 figures.

SUB CODE: Oh/ SUBM DATE: none/ ORIG REF: Oll

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SOURCE CODE: UR/2650/66/000/025/0122/0126

AUTHORS: Baydal, M. Kh.; Vdovenko, G. N.

ORG: none

TITLE: Refinement of a computational method for predicting rain on the basis of pressure maps

SOURCE: Alma-Ata. Kazakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut. Trudy, no. 25, 1966. Voprosy meteorologii (Problems in meteorology), 122-126

TOPIC TAGS: weather forecasting, atmospheric pressure, atmospheric temperature

ABSTRACT: The authors have sought to refine a method for predicting rain proposed by them in 1963; application of the method to Frunze and the plains of Kazakhstan has also been considered. The method is based on daily changes in relative topography of pressure maps (300/500, 500/700, 700/1000) and the dew-point deficit at the 700-millibar level. Improvement is introduced by considering advection and the change in dew-point deficit from the 700-millibar level to the 500- and 300-millibar level. A good indicator of rain is a sharp decrease (more than 50) in the dew-point ancit from one level to the overlying level, but there must not be a reversal in going on to the next level. Several actual examples of observed data are considered, and the results are encouraging. With consideration of this new modification, and on the

Card 1/2

basis of tests, 64-86% reliability is attainable, if the procedure is strictly followed. Consideration of advection, in conjunction with the other refinements, should provide even better results, but radiosonde data are necessary, and these are too meager in the investigated area. If advection is weak, the sonde must be used at the site where prediction is desired. The authors conclude that their proposed refinements improve reliability, but that more refinement is possible and necessary.

SUB CODE: Ou/ SUBM DATE: none/ ORIG REF: 003

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ACC NR. AT7006971

SOURCE CODE: UR/2650/66/000/025/0100/0105

AUTHORS: Ukrainskaya, V. S.; Baydal, M. Kh.

ORG: none

TITLE: Role of the circulation pole in the recurrence and intensity of northern incursions in northern Kazakhstan

SOURCE: Alma-Ata. Kazakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut. Trudy, no. 25, 1966. Voprosy meteorologii (Problems in meteorology), 100-105

TOPIC TAGS: atmospheric front, atmospheric circulation, weather forecasting

ABSTRACT: An explanation is given of the role played by variation in position of the circulation pole on the recurrence and intensity of northern incursions into northern Kazakhstan. By a northern incursion is meant the spread of cold Arctic air masses, normally formed in anticyclonic pressure systems and entering Kazakhstan from the north (northwest to northeast), causing a drop of 7° or more for 3 or more days at 11 stations in northern Kazakhstan. Incursions of this kind for the years 1956—64 have been tabulated according to type of circulation (using Vangeigeym's classification). The number of incursions corresponding to different positions of the circulation pole, the probability of positive or negative air-temperature anomalies

Card 1/2

with incursions of cold relative to position of the circulation pole, and the recurrence of different values of negative air-temperature anomalies relative to position of the circulation pole have been considered. From such comparious it is concluded that the position of the circulation pole is essential, in zaurion to the standard elements of weather, for reliable prediction of extreme cooling turing synoptic periods and of the sign and value of air-temperature anomalies in northern Kazakhstan. Orig. art. has: 4 tables.

SUB CODE: Oh/ SUBM DATE: none/ ORIG REF: 008

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BAYDALA, P.G. (Tomsk, 7, ul. Sovetskaya, d.34, kv.34)

Injury of the thoracic duct during resection of the esophagus for cancer. Vop. onk. 10 no.4:84 '64. (MIRA 17:11)

1. Iz kliniki gospital'noy khirurgii (zav. - prof. K.N. Zivert) Tomskogo meditsinskogo instituta.

BAYDALA, V.Y., inzh.; VODOP'YANOV, K.S., inzh.

High-quality track repairing has to be at the base of track maintenance and operation work. Put' i put.khoz. 7 no.8:45-46 163.

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1. Zamestitel' nachal'nika Kalachinskoy distantsii puti, ZapadnoSibirskoy dorogi (for Baydala). 2. Nachal'nik Chulymskoy distantsii
puti Zapadno-Sibirskoy dorogi (for Vodop'yanov).

(Railroads-Track)

BAYDALIN, A.Ya.

Episcotology, therapy, and prophylaxis of ranal coccidiosis in geese. Veterinariia 35 no.5:43-48 My '58. (MIRA 12:1)

1. Kurskaya nauchip-issledovatel'skaya veterinarnaya stantsiya. (Goccidiosis) (Geese-Diseases and pests)

BAYDALIN, A. Ya., Candidate Vet Sci (diss) -- "A study of renal coccidiosis in geese, and the development of measures to treat and prevent the disease". Kursk, 1959.

18 pp (All-Union Inst of Experimental Vet Med VASKhNIL), 150 copies (KL, No 24, 1959, 147)

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Measures for controlling orithonsphalfasis and metastrongelosis in swime. Veterinaria in neu-10:42-22 0 164.

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